

Appleton Locks and Dams, Storage Building at Lock 4
East of Lock 4 near the lower gate
Appleton
Outagamie County
Wisconsin

HAER No. WI-84-N

HAER
WIS
44-APPL,
IN-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD
Rocky Mountain System Support Office
National Park Service
P.O. Box 25287
Denver, Colorado 80225-0287

HISTORIC AMERICAN ENGINEERING RECORD

APPLETON LOCKS AND DAMS, STORAGE BUILDING AT LOCK 4

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Location: The storage building at Appleton Lock 4 of the Appleton Locks and Dams Complex is located near the lower gate of the lock, in the NW1/4, SE1/4, SW1/4, Section 25, T21N, R17E, Civil Town of Grand Chute, Outagamie County, Wisconsin.

UTM: 16/389220/4901570; USGS Quadrangle: Appleton, Wisconsin 7.5' series

Date of Construction: 1976

Engineer: United States Army Corps of Engineers with Contractors

Architect: United States Army Corps of Engineers with Contractors

Present Owner: United States Army Corps of Engineers

Present Use: Storage of paint and petroleum products.

Significance: The storage building functions as part of the daily operation of the Appleton Locks and Dams Complex.

Project Information: This documentation was undertaken in 1995 in accordance with requirements detailed in a June 19, 1994 letter from Gregory D. Kendrick, Chief, History Branch, NPS to Dale Monteith, Acting Chief, Planning Division, USACOE, Detroit District. The Lower Fox system remains basically operational but was placed in caretaker status by the USACOE in 1982. The USACOE plans to divest itself of the Lower Fox system as soon as is feasible; therefore, NPS requested this documentation. All documentation conforms to HAER standards.

Dr. John D. Richards, Principal Investigator; Georgia A. Lusk, Patricia B. Richards, and Robert J. Watson, Project Archivists with Great Lakes Archaeological Research Center, Inc.; Joseph Paskus, Project Photographer.

STORAGE BUILDING

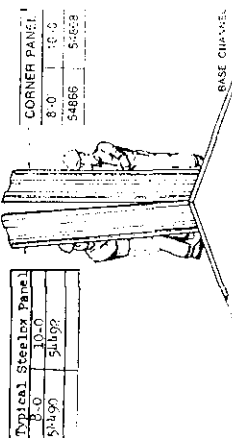
A 5 foot 4 inch by 5 foot 4 inch metal storage building is located near the lower gate of Appleton Lock 4. Constructed during the 1970s, the storage building is a pre-fabricated structure manufactured by Armco Building Systems of Cincinnati, Ohio. The modular wall panels, which are bolted onto a concrete slab foundation, support a flat roof.¹ An entrance door is located on the lockward side of the storage building, and a single, louvered vent is centered on the opposite side.²

ENDNOTES

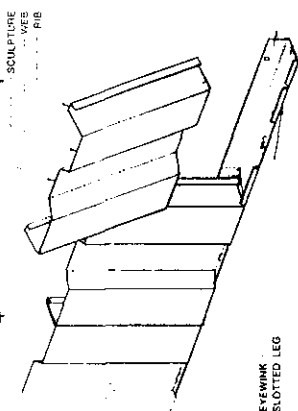
- 1 Armco Steel Buildings, Erection Instructions TL-1 Building, sheets ET-115, ET-116, ET-118, ET-119.
- 2 Ibid., sheets EW-109, E-159.

CORNER ERECTION

Starting at a corner assemble a corner panel and typical panel by bolting the interlocking rib to the base channel with bolt 5182 and nut 51183. Plumb the corner and wrench tighten nut and bolt. Mark door and window locations so that short panels can be installed.

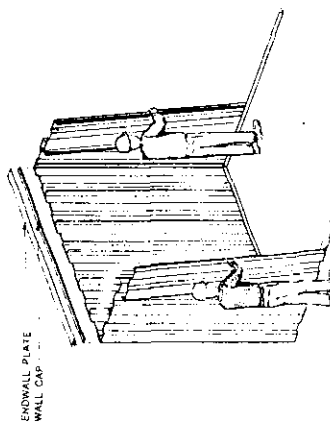


PANELS OVER SLING DOORS		
ALL	8'	10'
51725	54498	54504



WALL ERECTION

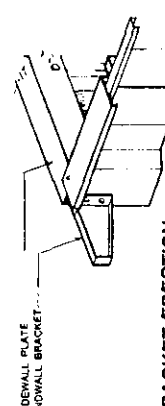
Erect end wall panels by placing the bottom of panel on base channel with panel ribs in base channel. Attach end wall panel web outside of slotting legs. End wall panel must be inside of base channel eye. Interlock male rib with the female rib of the preceding panel and bolt interlocked ribs to the base channel.



WALL CAP AND PLATE SCHEDULE				
BLDG. WIDTH	5'-4"	8'-0"	8'-0"	12'-0"
ENDWALL CAP	59394	59395	50354	59396
REAR OR ENDWALL PLATE	60510	60511	60512	60513
FRONT PLATE	60531	60532	60533	60534

WALL CAP & PLATE ERECTION

Place wall cap and plate on end wall panels. Plumb and square panels, but do not wrench tighten plate bolts. Erect the side walls, one wall from outside the building and the other wall from inside the building. Install sidewall wall caps and plates against corner panels. Too of front plate should be 1/4" above the panel and the wall cap. Position end wall plate flush with front and rear plates, then wrench tighten plate bolts. See door and window instructions for installation. For 8'-4" long building field cut sidewall plate and wall cap.

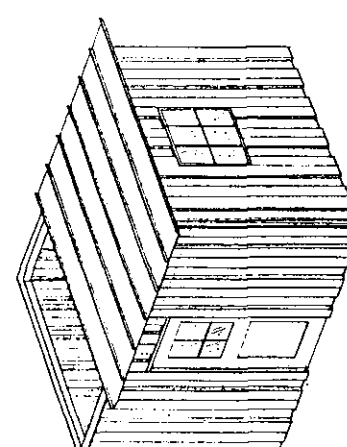


BRACKET ERECTION

ROOF ERECTION

* If ceiling is to be installed, it must be erected at the same time as is the roof...see std. ceiling detail.

Check building walls for plumb and square. Apply a continuous strip of tape sealant on top of plates. Set the first roof panel with the female rib 8" outside of endwall and with 8" of overhang on each sidewall. Field drill roof panel to match holes in plate and bolt with 1/4 x 3/4" bolts with weather seal washer. Continue setting roof panels bolting only to the rear plate and keeping ends of panels even. Move rear wall and not the roof panels to maintain the 8" overhang. Again check the walls for plumb and square. Field drill and bolt the roof panels to the front plate and endwall plates. Place fascia over male rib of the last roof panel. * (Note: If ceiling is to be installed, do not erect last roof panel at this time...see std. ceiling details.) If alternate gutter-fascia is used, see E7-121. Attach eave flashing 60535 around building with #10 x 7-8" SWS 16" O.C. Field cut ends at corners for closing tab.



ROOF PANELS				
BLDG. WIDTH	5'-4"	8'-0"	8'-0"	12'-0"
A LOAD	58978	54648	54649	59065
B LOAD	58978	54648	54649	59067
C LOAD	58978	54648	54649	59068
D LOAD	58978	54648	54649	59067
E LOAD	58978	54648	54649	59067

ROOF AND WALL ERECTION TL-1 BUILDING

ET-119
9/67
11/2